PCT/EP2004/007487

## IAP20 REC'OPCTIFTO 17 JAN 2006

## SEQUENCE LISTING

<110> Consortium fuer elektrochemische Industrie [Consortium for electrochemical industry] GmbH <120> Cells and method for fermentatively preparing  $R-\alpha-lipoic$  acid <130> Co10314 <140> <141> <160> 4 <170> PatentIn Ver. 2.0 <210> 1 <211> 679 <212> DNA <213> Escherichia coli <220> <221> CDS <222> (16)..(654) <223> lipB gene <300> <301> Reed, Kelynne E. Cronan Jr., John E. <302> Lipoic Acid Metabolism in Escherichia coli: Sequencing and Functional Characterization of the lipA and lipB Genes <303> J. Bacteriol. <304> 175 <305> 5 <306> 1325-1336 <307> 1993 <400> 1 cacggagatg eccat atg tat cag gat aaa att ett gte ege cag ete ggt Met Tyr Gln Asp Lys Ile Leu Val Arg Gln Leu Gly ctt cag cct tac gag cca atc tcc cag gct atg cat gaa ttc acc gat 99 Leu Gln Pro Tyr Glu Pro Ile Ser Gln Ala Met His Glu Phe Thr Asp 20 15 acc cgc gat gat agt acc ctt gat gaa atc tgg ctg gtc gag cac tat 147 Thr Arg Asp Asp Ser Thr Leu Asp Glu Ile Trp Leu Val Glu His Tyr 35 40 30 ccg gta ttc acc caa ggt cag gca gga aaa gcg gag cac att tta atg 195 Pro Val Phe Thr Gln Gly Gln Ala Gly Lys Ala Glu His Ile Leu Met 55 50 45

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<301> Miles, John S.
      Guest, John R.
<302> Subgenes expressing single lipoyl domains of the
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<303> Biochem. J.
<304> 245
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